Exhibit 1

Dr. Vijay K. Madisetti Fellow, IEEE vkm@madisetti.com Cell: 770-527-0177 Address: 56 Creekside Park Drive Johns Creek, GA 30022

Employment:

• 1989-present: Full Professor of Electrical & Computer Engineering (Georgia Tech, Atlanta, GA 30332).

Areas of Technical Interest – Embedded Systems, Wireless & Mobile Communications, Computer Engineering, Circuit Design (Analog/Digital), Biomedical Instrumentation Hardware/Software, Software Engineering, Digital Signal Processing, Sensors, Wireline & Wireless Computer Networks, Software Systems, Control Systems, Chip Design, Cloud Computing.

Education: PhD (EECS, University of California at Berkeley, 1989), B.Tech (Hons) in Electronics and Electrical Communications Engineering (Indian Institute of Technology, Kharagpur, 1984).

Startup Companies:

Director, VP Technologies, Inc. (1995-): A startup commercialized through Georgia Tech's Advanced Technology Development Corporation (ATDC) focusing on digital software and hardware design services for military market. http://www.vptinc.net

Director, Soft Networks, LLC (2001-2007): A startup commercialized through Georgia Tech support focusing on software development tools and compilers for Cellular/WiFi/VOIP/telecommunication products. http://www.soft-networks.com

Director, Elastic Video Inc. (2007- 2009): A startup commercialized through Georgia Tech's VentureLab (http://venturelab.gatech.edu) development image and video processing software for wireless & IP networking.

Litigation Experience (2015-2021) With Testimony

(Note: There may be multiple cases between the parties, e.g., District Court v. ITC, US versus Foreign Cases)

Chrimar v. Adtran, Alcatel, et al.

Technology: Power over Ethernet (2015-2017) Submitted reports & Deposition & Trial

Chamberlain v. Ryobi/TTI

Case No: 1:16-cv-06097 (ND Illinois)

Expert for Ryobi

Technology: Wireless/IoT/Barrier Movement (2016 – 2019)

Submitted reports & deposition & trial testimony

IOEngine v. IMC/Imation

Case No: cv-14-1572-GMS (US Delaware)

Expert for IMC/Imation

Technology: Networked Storage Device (2016-2017) Submitted reports & deposition & trial testimony

Huawei v. Samsung

Case No: 3:16-cv-2787-WHO (ND Cal)

Expert for Samsung

Technology: 4G/LTE Random Access Protocols (2016-2019)

Submitted reports & deposition

Hitachi Maxell v. ZTE/Huawei

Case No: 5:16-cv-00178-RWS (ED Texas)

Expert for Hitachi Maxell Technology: Digital Cameras

Submitted reports & deposition (2017 – 2018)

Hitachi Maxell v. Apple

Case No: 5:19-cv-00036-RWS Expert for Hitachi Maxell Technology: Digital Cameras Submitted Expert Reports (2020-)

Qualcomm v. Apple

Case No: 17-ccv-0108-GPC-MDD (SD Cal) Also, Related ITC/FTC Matters

Expert for Qualcomm

Technology: 4G/Wireless Communications/Smartphones (2017-2019)

Submitted Reports and Deposition

Qualcomm v. Apple

Case No: 3:17-cv-01375-DMS-MDD (SD Cal)

Expert for Qualcomm

Technology: 4G/Wireless Communications/Smartphones (2017-2019)

Submitted Reports and Deposition

Optis v. Huawei

Case No: 2:17-cv-123 (E.D. Texas)

Expert for Optis Wireless

Technology: 4G/Video (2017-2019) Submitted reports & deposition

Beckman Coulter v. Sysmex

Case No: 1:17-cv-24049-DPG (ND Illinois)

Expert for Sysmex

Technology: Medical Instrumentation Automation (2017-present)

Testifying Expert

TQ Delta v. Xyxel/Adtran

Expert for TQ Delta

Technology: DSL Technologies (2018-present)

Testifying Expert

3GL/KPN v. LG, Blackberry, HTC

Expert for 3GL/KPN

Technology: 4G/LTE Protocols (2018-present) Reports and Deposition / Testifying Expert

Rovi v. Comcast

ITC No. 337-TA-1103 (ITC)

Expert for Rovi

Technology: Digital Video & interactive GUI (Jan 2018-May 2018)

Reports and Deposition

Cirba/Densify v. VMWare

Case No: 1:19-cv-00742-LPS Expert for Cirba/Densify

Technology: Virtualization (2019-present)

Reports Deposition/PI Hearing / Testifying Expert

Power Integrations v. On Semiconductor

Case No: 17-cv-03189-BLF Expert for On Semiconductor

Technology: Power Electronics (2018-2019) Reports & Deposition/Testifying Expert.

Pathway v. Lumens, IPEVO, Aver JDA

Case No: ITC 337-TA-1045 Expert for Lumens JDA

Technology: Document Cameras (2016-2019) Reports & Deposition (for IPR/ITC, no trial)

Wilan v. Apple

Case No: 3:14-cv-2235 Expert for WiLan

Technology: Voice over LTE/LTE Protocols (2017-2020)

Reports and Testified through Deposition/Trials

St. Lawrence Comm. v. Amazon

Case No. 2:19-CV-00027-JRG

Expert for Amazon

Technology: Multimedia Codecs

Submitted Expert Reports/Deposition (2020-2020)

PanOptis v. Apple

Case No. 2:19-CV-00066-JRG

Expert for PanOptis Technology: LTE

Submitted Expert Reports/Deposition/Trial (2019-2020)

GAS v. Sprint Communications

Case No. 2:20-cv-00007-RWS Expert for General Access (GAS)

Technology: LTE

Submitted Expert Reports/Deposition (9/21-)

Additional matters include declarations supporting IPRs at the PTAB for Google (US Patent 8,601,154), On Semiconductor (US Patent 6,212,079), Ubisoft (US Patent 5,490,216), Lumens JDA (2017-2019), Broadcom (WiFi), Sony (US Patent 6,101,534), Kia, (US Patent 5,530,431), Qualcomm, Ericsson, Daimler Benz, VW, Estech, Amazon, Ring, Digital Ally, On Semiconductor, United Patents, Lenovo, BMC Software, BMW, Daimler and Dolby.

Earned Degrees

 B. Tech (Hons), Electronics & Electrical Comm. Engineering Indian Institute of Technology (IIT), Kharagpur, India 1984.

 Ph.D., Electrical Engineering & Computer Sciences (EECS) University of California (UC), Berkeley. CA 1989.

Books

1. VLSI Digital Signal Processors

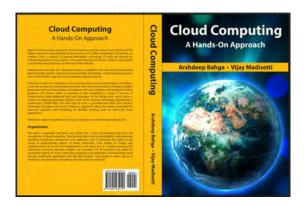
Madisetti, V.K.;

Boston: MA, IEEE Press: Butterworth Heinemann, 1995, 525 pp.

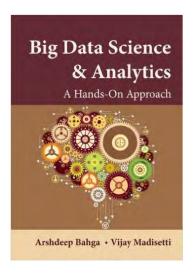
2. Quick-Turnaround ASIC Design in VHDL Romdhane, M., Madisetti, V.K., Hines, J. Boston: MA, Kluwer Academic Press, 1996, 190 pp.

- 3. The Digital Signal Processing Handbook (First Edition) Madisetti, V. K., Williams, D. (Editors) CRC Press, Boca Raton, Fla, 1998, 2500 pp.
- VHDL: Electronics Systems Design Methodologies. Madisetti, V. K. (Editor) Boston: MA, IEEE Standards Press, 2000, ISBN 0-7381-1878-8.
- Platform-Centric Approach to System-on-Chip (SoC) Design. Madisetti, V. K., Arpnikanondt, A. Springer, Boston: MA, Springer, 2004, 280 pp.
- The Digital Signal Processing Handbook Second Edition. Madisetti, V. K. (2009) CRC Press, Boca Raton, Fla.
- 7. Cloud Computing: A Hands-On Approach A Bahga, V. Madisetti (2013) Amazon CreateSpace Publishing, 2013, 454 pp.
- 8. Internet of Things: A Hands-On Approach A Bahga, V. Madisetti (2014)
 Amazon CreateSpace Publishing, 2014, 450 pp.

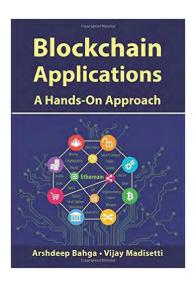




 Big Data Science & Analytics: A Hands-On Approach A Bahga, V. Madisetti (2016)
 Amazon CreateSpace Publishing, 2016, 542 pp.



10.Blockchain Applications: A Hands-On Approach A Bahga, V. Madisetti (2017) Amazon CreateSpace Publishing, 2017, 380 pp.



Edited Books & Collection of Papers

- Advances in Parallel & Distributed Simulation Madisetti, V.K.; Nicol, D., Fujimoto, R. (Editors) San Diego, CA: SCS Press, 1991, 200 pp.
- 2. Modeling, Analysis, Simulation of Computer & Telecommunications Systems Madisetti, V., Gelenbe, E., Walrand, J. W. (Editors)

Los Alamitos: CA, IEEE Computer Society Press, 1994, 425 pp.

 Modeling & Simulations on Microcomputers Madisetti, V.K. (Editor)
 San Diego, CA: SCS Press, 138 pp. 1990.

Editorship of Journals & Transactions

1. IEEE Design & Test of Computers

Special Issue: Reengineering Digital Systems

April – June 1999 (Vol 16, No 2)

Madisetti, V.K (Editor)

Los Alamitos: CA, IEEE Computer Society Press, 1999.

2. IEEE Design & Test of Computers

Special Issue: Rapid Prototyping of Digital Systems

Fall 1996 (Vol 13, No 3)

Madisetti, V., Richards, M. (Editors)

Los Alamitos: CA, IEEE Computer Society Press, 1994, 425 pp.

3. IEEE Transactions on Circuits & Systems II

Associate Editor: 1993-1995.

4. International Journal in Computer Simulation

Associate Editor: 1990-1993

5. International Journal in VLSI Signal Processing

Editorial Board: 1995 - Present

Recent Issued US Patents

- [1] 10,503,927 Method and system for securing cloud storage and databases from insider threats and optimizing performance, Issued Dec 10, 2019
- [2]. 10,460,283 Smart contract optimization for multiparty service or product ordering system, Issued Oct 29, 2019
- [3]. 10,459,946 Method and system for tuning blockchain scalability, decentralization, and security for fast and low-cost payment and transaction processing, Issued Oct 29, 2019

- [4]. 10,402,589 Method and system for securing cloud storage and databases from insider threats and optimizing performance, Issued Sep 3, 2019
- [5]. 10,394,845 Method and system for tuning blockchain scalability for fast and low-cost payment and transaction processing, Issued Aug 27, 2019
- [6]. 10,289,631 Method and system for tuning blockchain scalability for fast and low-cost payment and transaction processing, Issued May 24, 2019
- [7]. 10,255,342 Method and system for tuning blockchain scalability, decentralization, and security for fast and low-cost payment and transaction processing, Issued April 9, 2019
- [8]. 10,243,743 Tokens or crypto currency using smart contracts and blockchains, Issued March 26. 2019
- [9]. 10,204,339 Method and system for blockchain-based combined identity, ownership, integrity and custody management, Issued February 12, 2019
- [10]. 10,204,148 Method and system for tuning blockchain scalability, decentralization, and security for fast and low-cost payment and transaction processing, Issued Feb 12, 2019
- [11]. 10,121,143 Method and system for blockchain-based combined identity, ownership, integrity and custody management, Issued Nov 6, 2018
- [12]. 10,102,526 Method and system for blockchain-based combined identity, ownership, integrity and custody management, October 16, 2018
- [13]. 10,102,265 Method and system for tuning blockchain scalability for fast and low-cost payment and transaction processing, October 16, 2018
- [14]. 9,935,772 Methods and systems for operating secure digital management aware applications, April 3, 2018
- [15]. 9,769,213 Method and system for secure digital object management, Issued Sep 19, 2017

Refereed Journal Publications

- Trends in the Electronic Control of Mine Hoists Madisetti, V. and Ramlu, M., IEEE Transactions on Industry Applications, Vol IA-22, No. 6, November/December 1986. Pages 1105-1112
- 2. Multilevel range/NEXT performance in digital subscriber loops Brand, G.; Madisetti, V.; Messerschmitt, D.G.; Communications, Speech and Vision, IEE Proceedings I [see also IEE

Proceedings-Communications], Volume: 136, Issue: 2, April 1989 Pages: 169 – 174

3. Seismic migration algorithms on parallel computers Madisetti, V.K.; Messerschmitt, D.G.;

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on], Volume: 39, Issue: 7, July 1991

Pages: 1642 - 1654

4. Asynchronous algorithms for the parallel simulation of event-driven dynamical systems

Madisetti, V.K.; Walrand, J.C.; Messerschmitt, D.G.:

ACM Transactions on Modeling and Computer Simulation, v 1, n 3, July 1991, Pages: 244-74

5. Synchronization mechanisms for distributed event-driven computation

Madisetti, V.K.; Hardaker, D.:

ACM Transactions on Modeling and Computer Simulation, v 2, n 1, Jan. 1992, Pages: 12-51

6. Efficient VLSI Architectures for the Arithmetic Fourier Transform (AFT)

Kelley, B.T.; Madisetti, V.K.;

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on], Volume: 41, Issue: 1, January 1993

Pages: 365-378

7. The fast discrete Radon transform. I. Theory

Kelley, B.T.; Madisetti, V.K.;

Image Processing, IEEE Transactions on ,Volume: 2 , Issue: 3 , July 1993

Pages: 382 - 400

8. The Georgia Tech digital signal multiprocessor

Barnwell, T.P., III; Madisetti, V.K.; McGrath, S.J.A.;

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on], Volume: 41, Issue: 7, July 1993 Pages: 2471 - 2487

9. The MIMDIX Environment for Parallel Simulation

Madisetti, V.K.; Hardaker, D.; Fujimoto, R.M.:

Journal of Parallel and Distributed Computing, v18, no. 4, August 1993,

Pages: 473-83.

10.LMSGEN: a prototyping environment for programmable adaptive digital filters in VLSI

Romdhane, M.S.B.; Madisetti, V.K.;

Chapter in VLSI Signal Processing, VII, 1994.,

Pages: 33 - 42

11. Fixed-point co-design in DSP

Egolf, T.W.; Famorzadeh, S.; Madisetti, V.K.; Chapter in VLSI Signal Processing, VII, 1994.,

Pages: 113 - 126

12. A fast spotlight-mode synthetic aperture radar imaging system Madisetti, V.K.;

Communications, IEEE Transactions on ,Volume: 42 , Issue: 234 , February-

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Pages: 873 - 876

13. Rapid prototyping on the Georgia Tech digital signal multiprocessor Curtis, B.A.; Madisetti, V.K.;

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on], Volume: 42, Issue: 3, March 1994

Pages: 649 - 662

14.Low-power signaling in asymmetric noisy channels via spectral shaping

Sipitca, M.; Madisetti, V.K.;

Signal Processing Letters, IEEE, Volume: 1, Issue: 8, Aug 1994

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15. A quantitative methodology for rapid prototyping and high-level synthesis of signal processing algorithms

Madisetti, V.K.; Curtis, B.A.;

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on], Volume: 42, Issue: 11, Nov. 1994 Pages: 3188 – 3208

16. Computer Simulation of Application-Specific Signal Processing Systems

Casinovi, G.; Madisetti, V.K.;

International Journal in Computer Simulation, Vol. 4, No. 4, Nov 1994.

17. System partitioning of MCMs for low power

Khan, S.A.; Madisetti, V.K.;

Design & Test of Computers, IEEE , Volume: 12 , Issue: 1 , Spring 1995

Pages: 41 – 52

18. Error correcting run-length limited codes for magnetic recording Jaejin Lee; Madisetti, V.K.;

Magnetics, IEEE Transactions on ,Volume: 31 , Issue: 6 , Nov. 1995

Pages: 3084 - 3086

19. Virtual prototyping of embedded microcontroller-based DSP systems Madisetti, V.K.; Egolf, T.W.;

Micro, IEEE , Volume: 15 , Issue: 5 , Oct. 1995

Pages: 9 - 21

20. Constrained multitrack RLL codes for the storage channel

Lee, J.; Madisetti, V.K.;

Magnetics, IEEE Transactions on ,Volume: 31 , Issue: 3 , May 1995

Pages: 2355 - 2364

21. Rapid digital system prototyping: current practice, future challenges Madisetti, V.K.;

Design & Test of Computers, IEEE , Volume: 13 , Issue: 3 , Fall 1996 Pages: 12 – 22

22. Conceptual prototyping of scalable embedded DSP systems Dung, L.-R.; Madisetti, V.K.;

Design & Test of Computers, IEEE , Volume: 13 , Issue: 3 , Fall 1996

Pages: 54 - 65

23. Advances in rapid prototyping of digital systems

Madisetti, V.K.; Richards, M.A.;

Design & Test of Computers, IEEE , Volume: 13 , Issue: 3 , Fall 1996

Pages: 9

24. Combined modulation and error correction codes for storage channels

Jaejin Lee; Madisetti, V.K.;

Magnetics, IEEE Transactions on ,Volume: 32 , Issue: 2 , March 1996

Pages: 509 - 514

25. Model-based architectural design and verification of scalable embedded DSP systems-a RASSP approach

Dung, L.-R.; Madisetti, V.K.; Hines, J.W.;

Chapter in VLSI Signal Processing, IX, 1996.

Pages: 147 – 156

26. Low-power digital filter implementations using ternary coefficients Hezar, R.; Madisetti, V.K.;

Chapter in VLSI Signal Processing, IX, 1996.,

Pages: 179 - 188

27. All-digital oversampled front-end sensors

Romdhane, M.S.B.; Madisetti, V.K.;

Signal Processing Letters, IEEE, Volume: 3, Issue: 2, Feb. 1996

Pages: 38 - 39

28. Modeling COTS components in VHDL

Calhoun, S., Reese, R; Egolf, T., Madisetti, V.K.;

Journal of VLSI Signal Processing, Volume: 14, Issue: 2, Nov 1996

Pages: 24 – 31

29. VHDL-Based Rapid Systems Prototyping

Egolf, T.; Madisetti, V.K.;

Journal of VLSI Signal Processing, Volume: 14, Issue: 2, Nov 1996

Pages: 40-52

30. Interface design for core-based systems

Madisetti, V.K.; Lan Shen;

Design & Test of Computers, IEEE , Volume: 14 , Issue: 4 , Oct.-Dec. 1997

Pages: 42 - 51

31. Incorporating cost modeling in embedded-system design

Debardelaben, J.A.; Madisetti, V.K.; Gadient, A.J.;

Design & Test of Computers, IEEE , Volume: 14 , Issue: 3 , July-Sept. 1997

Pages: 24 – 35

32. On homomorphic deconvolution of bandpass signals

Marenco, A.L.; Madisetti, V.K.;

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and

Signal Processing, IEEE Transactions on], Volume: 45, Issue: 10, Oct. 1997

Pages: 2499 - 2514

33. A case study in the development of multi-media educational material: the VHDL interactive tutorial

Gadient, A.J.; Stinson, J.A., Jr.; Taylor, T.C.; Aylor, J.H.; Klenke, R.H.;

Salinas, M.H.; Madisetti, V.K.; Egolf, T.; Famorzadeh, S.; Karns, L.N.; Carter,

H.W.:

Education, IEEE Transactions on , Volume: 40 , Issue: 4 , Nov. 1997

Pages: 17 pp.

34. Adaptive mobility management in wireless networks

Jeongwook Kim; Madisetti, V.K.;

Electronics Letters , Volume: 34 , Issue: 15 , 23 July 1998

Pages: 1453 - 1455

35. Efficient implementation of two-band PR-QMF filterbanks

Hezar, R.; Madisetti, V.K.;

Signal Processing Letters, IEEE , Volume: 5 , Issue: 4 , April 1998

Pages: 92 - 94

36. On fast algorithms for computing the inverse modified discrete cosine transform

Yun-Hui Fan; Madisetti, V.K.; Mersereau, R.M.;

Signal Processing Letters, IEEE , Volume: 6 , Issue: 3 , March 1999

Pages: 61 – 64

37. System on chip or system on package?

Tummala, R.R.; Madisetti, V.K.;

Design & Test of Computers, IEEE , Volume: 16 , Issue: 2 , April-June 1999

Pages: 48 - 56

38. Reengineering legacy embedded systems

Madisetti, V.K.; Jung, Y.-K.; Khan, M.H.; Kim, J.; Finnessy, T.;

Design & Test of Computers, IEEE , Volume: 16 , Issue: 2 , April-June 1999

Pages: 38 - 47

39. Reengineering digital systems

Madisetti, V.K.;

Design & Test of Computers, IEEE , Volume: 16 , Issue: 2 , April-June 1999

Pages: 15 - 16

40. Parameter optimization of robust low-bit-rate video coders

Sangyoun Lee; Madisetti, V.K.;

Circuits and Systems for Video Technology, IEEE Transactions on, Volume: 9

Issue: 6, Sept. 1999

Pages: 849 - 855

41. Closed-form for infinite sum in bandlimited CDMA

Jatunov, L.A.; Madisetti, V.K.;

Communications Letters, IEEE , Volume: 8 , Issue: 3 , March 2004

Pages: 138 - 140

42. A new protocol to enhance path

reliability and load balancing in mobile ad hoc networks

Argyriou, A.; Madisetti, V.K.;

Journal of Ad Hoc Networks, Elsevier Press, 2004

43. Closed-form analysis of CDMA systems using Nyquist pulse Jatunov, L.A.; Madisetti, V. K.; Communications Letters, IEEE (Under Revision), 2005.

44. Systematic Design of End-to-End Wireless Mobility Management Prototocols,

Argyriou, A.; Madisetti, V. K.;

ACM/Springer Wireless Networks (WINET), Accepted 2005.

45. A Novel End-to-End Approach for Video Streaming Over the Internet, Argyriou, A.; Madisetti, V. K.; Kluwer Telecommunications Systems, Vol. 28, No. 2, Pages 133-150, Jan

Riuwer Telecommunications Systems, vol. 28, No. 2, Pages 133-150, Jan 2005. Special Issue on Multimedia Streaming.

46. An Analytical Framework of RD Optimized Video Streaming with TCP, Argyriou, A.; Madisetti, V. K.; IEEE Transactions on Multimedia, Submitted for review in March 2005.

47. Modeling the Effect of Handoffs on Transport Protocol Performance, Argyriou, A.; Madisetti, V. K.; IEEE Transactions on Mobile Computing, Submitted for review in March 2005

48. Throughput Models for Transport Protocols with CBR and VBR Traffic Workloads",

Argyriou, A.; Madisetti, V. K.;

ACM Transactions on Multimedia Computing, Communications & Applications, Submitted for review in April 2005.

49. "Electronic System, Platform & Package Codesign",

Madisetti, V. K.

IEEE Design & Test of Computers, Volume 23, Issue 3, June 2006. pages 220-233.

50. "The Design of an End-to-End Handoff Management Protocol", A. Argyriou, Madisetti, V. K. Wireless Networks, Springer, May 2006.

51. "A Soft-Handoff Transport Protocol for Media Flows in Heterogeneous Mobile Networks",

A. Argyriou, Madisetti, V. K.

Computer Networks, Vol 50, Issue 11, Pages 1860-1871, August 2006.

- 52. "Computationally Efficient SNR Estimation for Bandlimited WCDMA Systems"
 - L. Jatunov, Madisetti, V. K.
 - IEEE Transactions on Wireless Communications, Volume 5, Issue 13, December 2006, Pages 3480-3491.
- 53." Space-Time Codes for Wireless & Mobile Applications", M. Sinnokrot, Madisetti, V.K. DSP Handbook, Second Edition, 2009 (to be published)
- 54.A. Bahga, V. Madisetti, "Rapid Prototyping of Advanced Cloud-Based Systems", IEEE Computer, vol. 46, no. 11, Nov 2013, pp 76-83, 2013
- 55.A. Bahga, V. Madisetti, "Cloud-Based Information Integration & Informatics Framework for Healthcare Applications", IEEE Computer, February 2015.
- 56.A. Bahga, V. Madisetti, "A Cloud-based Approach for Interoperable EHRs", IEEE Journal of Biomedical and Health Informatics, vol. 17, no. 5, Sep 2013, pp. 894-906, 2013
- 57.A. Bahga, V. Madisetti, "Cloud-Based Information Technology Framework for Data Driven Intelligent Transportation Systems", Journal of Transportation Technologies, vol.3 no.2, April 2013
- 58.A. Bahga, V. Madisetti, "Performance Evaluation Approach for Multi-tier Cloud Applications", Journal of Software Engineering and Applications, vol. 6, no. 2, pp. 74-83, Mar 2013.
- 59. Yusuf, A., V. Madisetti, "Configuration for Predicting Travel Time Using Wavelet Packets and Support Vector Regression", Journal of Transportation Technologies, vol 3, no. 3, June 2013.
- 60.A. Bahga, V. Madisetti, "Analyzing Massive Machine Maintenance Data in a Computing Cloud", IEEE Transactions on Parallel and Distributed Systems, vol. 23, no. 10, pp. 1831 1843, 2012.
- 61.N. Radia. Y. Zhang, M. Tatimapula, V. Madisetti, "Next Generation Applications on Cellular Networks: Trends, Challenges, and Solutions," Proceedings of the IEEE, Vol 100, Issue 4, pp. 841-854, 2012.
- 62.A. Bahga, V. Madisetti, "Rapid Prototyping of Advanced Cloud-Based Systems", IEEE Computer, vol. 46, no. 11, Nov 2013, pp 76-83, 2013

- 63.A. Bahga, V. Madisetti, "A Cloud-based Approach for Interoperable EHRs", IEEE Journal of Biomedical and Health Informatics, vol. 17, no. 5, Sep 2013, pp. 894-906, 2013
- 64.A. Bahga, V. Madisetti, "Cloud-Based Information Integration & Informatics Framework for Healthcare Applications", IEEE Computer, February 2015.

Peer Reviewed Conference Publications

- 1. Dynamically-reduced complexity implementation of echo cancelers Madisetti, V.; Messerschmitt, D.; Nordstrom, N.; Acoustics, Speech, and Signal Processing, IEEE International Conference on ICASSP '86., Volume: 11, Apr 1986
- Seismic migration algorithms using the FFT approach on the NCUBE multiprocessor
 Madisetti, V.K.; Messerschmitt, D.G.;
 Acoustics, Speech, and Signal Processing, 1988. ICASSP-88., 1988
 International Conference on , 11-14 April 1988
- 3. Seismic migration algorithms on multiprocessors Madisetti, V.K.; Messerschmitt, D.G.; Acoustics, Speech, and Signal Processing, 1988. ICASSP-88., 1988 International Conference on , 11-14 April 1988 Pages: 2124 2127 vol.4
- WOLF: A rollback algorithm for optimistic distributed simulation systems
 Madisetti, V.; Walrand, J.; Messerschmitt, D.;
 Simulation Conference Proceedings, 1988 Winter, December 12-14, 1988
 Pages: 296 – 305
- Efficient distributed simulation Madisetti, V.; Walrand, J.; Messerschmitt, D.; Simulation Symposium, 1989. The 22nd Annual, March 28-31, 1989 Pages: 5 - 6
- 6. High speed migration of multidimensional seismic data Kelley, B.; Madisetti, V.;

Acoustics, Speech, and Signal Processing, 1991. ICASSP-91., 1991 International Conference on , 14-17 April 1991 Pages: 1117 - 1120 vol.2

7. Performance of a fast analog VLSI implementation of the DFT Buchanan, B.; Madisetti, V.; Brooke, M.; Circuits and Systems, 1992., Proceedings of the 35th Midwest Symposium on

, 9-12 Aug. 1992

Pages: 1353 - 1356 vol.2

8. Task scheduling in the Georgia Tech digital signal multiprocessor Curtis, B.A.; Madisetti, V.K.;

Acoustics, Speech, and Signal Processing, 1992. ICASSP-92., 1992 IEEE International Conference on ,Volume: 5 , 23-26 March 1992 Pages: 589 - 592 vol.5

9. The fast discrete Radon transform

Kelley, B.T.; Madisetti, V.K.;

Acoustics, Speech, and Signal Processing, 1992. ICASSP-92., 1992 IEEE International Conference on ,Volume: 3 , 23-26 March 1992

Pages: 409 - 412 vol.3

10. Yield-based system partitioning strategies for MCM and ASEM design Khan, S.; Madisetti, V.;

Multi-Chip Module Conference, 1994. MCMC-94, Proceedings., 1994 IEEE, 15-17 March 1994

Pages: 144 - 149

11. Multitrack RLL codes for the storage channel with immunity to intertrack interference

Lee, J.; Madisetti, V.K.;

Global Telecommunications Conference, 1994. GLOBECOM '94.

'Communications: The Global Bridge'., IEEE, Volume: 3 , 28 Nov.-2 Dec. 1994

Pages: 1477 - 1481 vol.3

12. A parallel mapping of backpropagation algorithm for mesh signal processor

Khan, S.A.; Madisetti, V.K.;

Neural Networks for Signal Processing [1995] V. Proceedings of the 1995

IEEE Workshop , 31 Aug.-2 Sept. 1995

Pages: 561 - 570

13. Virtual prototyping of embedded DSP systems

Madisetti, V.K.; Egolf, T.; Famorzadeh, S.; Dung, L.-R.;

Acoustics, Speech, and Signal Processing, 1995. ICASSP-95., 1995

International Conference on ,Volume: 4 , 9-12 May 1995

Pages: 2711 - 2714 vol.4

14. Assessing and improving current practice in the design of application-specific signal processors

Shaw, G.A.; Anderson, J.C.; Madisetti, V.K.;

Acoustics, Speech, and Signal Processing, 1995. ICASSP-95., 1995

International Conference on ,Volume: 4 , 9-12 May 1995

Pages: 2707 - 2710 vol.4

15. Introduction to ARPA's RASSP initiative and education/facilitation program

Corley, J.H.; Madisetti, V.K.; Richards, M.A.;

Acoustics, Speech, and Signal Processing, 1995. ICASSP-95., 1995

International Conference on ,Volume: 4 , 9-12 May 1995

Pages: 2695 - 2698 vol.4

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Ph.D. Students Graduated

 Brian T. Kelley, 1992
 VLSI Computing Architectures for High Speed Signal Processing Member of Technical Staff, Motorola.

Winner of Dr. Thurgood Marshall Dissertation Fellowship Award

- Bryce A. Curtis, 1992
 Special Instruction Set Multiple Chip Computer for DSP Member of Technical Staff, IBM
- 3. Jaejin Lee, 1994 Robust Multitrack Codes for the Magnetic Channel Professor, Yonsei University, Korea
- 4. Mohamed S. Ben Romdhane, 1995
 Design Synthesis of Application-Specific IC for DSP
 Director of IP, Rockwell.
- Shoab A. Khan, 1995
 Logic and Algorithm Partitioning on MCMs
 Professor, National University of Science & Technology, Pakistan
- 6. Lan-Rong Dung, 1997 VHDL-based Conceptual Prototyping of Embedded DSP Architectures Professor, National Chaio Tung University, Taiwan.

Winner of VHDL International Best PhD Thesis Award, 1997

7. Thomas W. Egolf, 1997 Virtual Prototyping of Embedded DSP Systems Distinguished Member of Technical Staff, Agere

8. Alvaro Marenco, 1997 On Homomorphic Deconvolution of Bandpass Signals Professor, Texas A&M University.

Winner of GIT ECE Outstanding Teaching Assistant Award

9. Shahram Famorzadeh, 1997 BEEHIVE: A Distributed Environment for Adaptive Signal Processing Member of Technical Staff, Rockwell.

10. Timothy J. Klausutis, 1997
Adaptive Lapped Transforms with Applications to Image Coding.
US Air Force/Univ. of Florida.

11. Lan Shen, 1998 Temporal Design of Core-Based Systems Member of Technical Staff, IBM

12. James DeBardelaben, 1998 Optimization Based Approach to Cost Effective DSP Design Research Scientist, Johns Hopkins University

Georgia Tech ECE Faculty Award

13. Sangyoun Lee, 1999
Design of Robust Video Signal Processors
Professor, Yonsei University

US Army Sensors Lab Research Excellence Award, 1999

14. Rahmi Hezar, 2000 Oversampled Digital Filters Member of Technical Staff, Texas Instruments

15. Yong-kyu Jung, 2001 Model-Based Processor Synthesis Professor, Texas A&M University

Mustafa Turkboylari, 2002
 Handoff Algorithms for Wireless Applications
 Member of Technical Staff, Texas Instruments

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Design of a Retargetable Compiler for DSP Member of Technical Staff, Qualcomm

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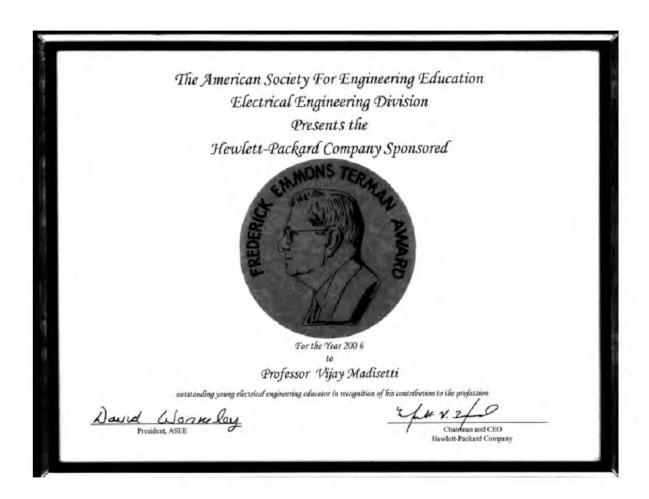
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 Performance Analysis of 3G CDMA Systems
 Senior Research Scientist, Soft Networks, LLC.
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- 22. Pilho Kim, 2009, Scientist, VP Technologies, Inc.
- 23. M. Sinnokrot, 2009, Staff Engineer, Qualcomm.

Awards & Honors

- 1. **Jagasdis Bose National Science Talent Fellowship**, Indian Institute of Technology, Kharagpur, 1980-1984.
- 2. **General Proficiency Prize**, Indian Institute of Technology, Kharagpur, 1984.
- 3. **Demetri Angelakos Outstanding Graduate Student Award**, Univ. of California, Berkeley, 1989
- 4. **Ira Kay IEEE/ACM Best Paper Award** for Best Paper presented at IEEE Annual Simulation Symposium, 1989
- 5. **IBM Faculty Development Award** 1990
- 6. **Technical Program Chair**, IEEE Workshop on Parallel and Distributed Simulation. 1990.
- 7. Technical Program Chair, IEEE MASCOTS'94
- 8. **NSF RI Award**, 1990
- 9. VHDL International Best PhD Dissertation Advisor Award, 1997

- 10. Georgia Tech Outstanding Doctoral Dissertation Advisor Award, 2001.
- 11. ASEE 2006 Frederick Emmons Terman Medal, 2006.
- 12. Fellow of IEEE



Intellectual Property Disclosures (Georgia Tech)

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